

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark, Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.usplu.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 02/25/2003 McGinn & Gibb PPLC Sean M McGinn 8321 Old Courthouse Road Suite 200 Vienna, VA 22182-3817]	CHUNG, DAVID Y ART UNIT 2871 A49-0680 DATE MAILED: 02/25/2003	
APPLICATION NO.	FILING DATE	FIRST	NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,624 TITLE OF INVENTION: I	12/17/2001 LIQUID-CRYSTAL DISPLA		uji Takahashi	P 290476 T36-139734M/AIO	7549
·					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	05/27/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Box ISSUE FEE

Commissioner for Patents

Washington, D.C. 20231

Fax (703)746-4000

STRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks

appropriate. All further con indicated unless corrected	respondence including th below or directed otherwi	e Patent, advance orders	and notification	of maintenance fee	s will be mailed to the current ess; and/or (b) indicating a separate	correspondence address as	
maintenance fee notifications. CURRENT CURRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				Note: A certificate	e of mailing can only be used for	r domestic mailings of the	
75 McGinn & Gibb	590 02/25/2003 PPLC			accompanying pa	al. This certificate cannot pers. Each additional paper, so the paper its own certificate of n	uch as an assignment or	
Sean M McGinn					Certificate of Mailing or Trans	smission	
8321 Old Courthou	ise Road			I hereby certify t	that this Fee(s) Transmittal is	being deposited with the	
Suite 200	2017		•	I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile			
Vienna, VA 22182	-381/			transmitted to the	USPTO, on the date indicated b	(Depositor's name)	
	·				· · · · · · · · · · · · · · · · · · ·	(Signature)	
,					· · · · · · · · · · · · · · · · · · ·	(Date)	
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/015,624	12/17/2001		Yuji Takahashi		P 290476	7549	
TITLE OF INVENTION: L	IQUID-CRYSTAL DISP	LAY DEVICE			T36-139734M/AIO		
· APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBL	ICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
· nonprovisional	NO	\$1300		\$300	\$1600	05/27/2003	
EXAMII	NER .	ART UNIT	CLASS-SUBCI	LASS		,	
CHUNG, D	AVID Y	2871	349-06800		•		
I. Change of corresponden CFR 1.363). ☐ Change of correspond Address form PTO/SB/1. ☐ "Fee Address" indicati PTO/SB/47; Rev 03-02 of Number is required.	f Correspondence	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
3. ASSIGNEE NAME AND PLEASE NOTE: Unless a been previously submitted (A) NAME OF ASSIGNE	n assignee is identified be to the USPTO or is being	low, no assignee data wi submitted under separate	ll appear on the p cover. Completic	natent. Inclusion of	assignee data is only appropriat IT a substitute for filing an assig OUNTRY)	e when an assignment has nment.	
Please check the appropriate	assignee category or cate	gories (will not be printed	on the patent)	🗆 individual 🕻	corporation or other private gi	oup entity government	
4a. The following fee(s) are	enclosed:	•	ment of Fee(s):				
- 133dc 1 cc				t of the fee(s) is encl		•	
- Tubilitation 700		•	d. Form PTO-2038 : hereby authorized by	is attached. y charge the required fee(s), or c	redit any overnovment to		
Advance Order - # of C		Deposit	Account Number	er	_(enclose an extra copy of this i	form).	
	requested to apply the iss	ue ree and rubileation re	e (ii aliy) or to re	-appry any previous	sty paid issue fee to the applicati	on identified above.	
(Authorized Signature)		(Date)					
NOTE; The Issue Fee and other than the applicant; interest as shown by the re-	a registered attorney or a cords of the United States	igent; or the assignee or Patent and Trademark Of	r other party in fice.				
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing t Patent and Trademark Off NOT SEND FEES OR Commissioner for Patents,					o		
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.					•		



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Washington, D.C. 20231
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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,624	12/17/2001		Yuji Takahashi	P 290476 7549 T36-139734M/AIO EXAMINER	
7590 02/25/2003 McGinn & Gibb PPLC			CHUNG, DAVID Y		
Sean M McGinn 8321 Old Courthou	se Road			ART UNIT	PAPER NUMBER
Suite 200 Vienna, VA 22182-3817				2871	
				DATE MAILED: 02/25/2003	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.usptc.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/015,624	12/17/2001	Yuji Takahashi	P 290476	T24 12072 11410	
75	90 02/25/2003		EXAMIN	ER	
McGinn & Gibb	PPLC		CHUNG, DA	AVID Y	
Sean M McGinn 8321 Old Courthou	se Road		ART UNIT	PAPER NUMBER	
Suite 200	2015		2871	· · · · · · · · · · · · · · · · · · ·	
Vienna, VA 22182- UNITED STATES			DATE MAILED: 02/25/2003	•	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)				
Notice of Allowability	10/015,624	TAKAHASHI ET AL.				
Notice of Allowability	Examiner	Art Unit				
•	David Y. Chung	2871				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the country (OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS				
 This communication is responsive to <u>amendment filed 03 January 2003</u>. The allowed claim(s) is/are <u>1-12</u>. The drawings filed on <u>17 December 2001</u> are accepted by the Examiner. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All Some* None The drawings filed on <u>17 December 2001</u> are accepted by the Examiner. 						
1. Certified copies of the priority documents have	been received.					
2. Certified copies of the priority documents have	been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provis	ional application).				
(a) The translation of the foreign language provisional a	•					
6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and/or 121.					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the submitted of the submi	this application. THIS THREE-MO	NTH PERIOD IS NOT EXTENDABLE.				
INFORMAL PATENT APPLICATION (PTO-152) which gives reas						
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No	·	,				
(b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner.						
(c) 🔲 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No						
Identifying indicia such as the application number (see 37 CFR 1, of each sheet. The drawings should be filed as a separate paper						
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)						
1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No.	4∏ Interview Summ 6∏ Examiner's Ame					
7 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's State 9⊡ Other .	ement of Reasons for Allowance				
	on outer .					

Art Unit: 2871

Allowable Subject M tter

Page 2

The following is an examiner's statement of reasons for allowance: none of the prior art taught or suggested a color-filterless full color liquid crystal display device comprising: a liquid crystal shutter portion including twisted nematic liquid crystal or super twisted nematic liquid crystal; a backlight portion including light source units and a planar light guide, wherein said light source units comprise at least one red LED, at least one green LED, and at least one blue LED, wherein the number of blue LED's is not smaller than the number of red LED's, and the number of blue LED's is not smaller than the number of green LED's, wherein said light source units are disposed on an edge of said planar light guide.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Chung whose telephone number is (703) 306-0155. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:00 pm.

David Chung GAU 2871 02/24/03